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| <b>STN</b> | <b>Pasívne vysokofrekvenčné a mikrovlnné zariadenia, meranie intermodulačnej úrovne</b><br><b>Časť 1: Všeobecné požiadavky a skúšobné metódy</b> | <b>STN</b><br><b>EN IEC 62037-1</b><br><br>34 7705 |
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Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/22

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN IEC 62037-1**

December 2021

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Supersedes EN 62037-1:2012 and all of its amendments  
and corrigenda (if any)

English Version

**Passive RF and microwave devices, intermodulation level  
measurement - Part 1: General requirements and measuring  
methods  
(IEC 62037-1:2021)**

Dispositifs RF et à micro-ondes passifs, mesure du niveau  
d'intermodulation - Partie 1: Exigences générales et  
méthodes de mesure  
(IEC 62037-1:2021)

Passive HF- und Mikrowellenbauteile, Messung des  
Intermodulationspegels - Teil 1: Allgemeine Anforderungen  
und Messverfahren  
(IEC 62037-1:2021)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 62037-1:2021 (E)****European foreword**

The text of document 46/834/FDIS, future edition 2 of IEC 62037-1, prepared by IEC/TC 46 “Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62037-1:2021.

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## **Annex ZA**

(normative)

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| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                                     | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|----------------------------------------------------------------------------------|--------------|-------------|
| IEC 62037          | series      | Passive RF and microwave devices, EN IEC 62037 intermodulation level measurement |              | series      |



IEC 62037-1

Edition 2.0 2021-11

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Passive RF and microwave devices, intermodulation level measurement –  
Part 1: General requirements and measuring methods**

**Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation –  
Partie 1: Exigences générales et méthodes de mesure**

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IEC 62037-1

Edition 2.0 2021-11

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Passive RF and microwave devices, intermodulation level measurement –  
Part 1: General requirements and measuring methods**

**Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation –  
Partie 1: Exigences générales et méthodes de mesure**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PASSIVE RF AND MICROWAVE DEVICES,  
INTERMODULATION LEVEL MEASUREMENT –****Part 1: General requirements and measuring methods**

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IEC 62037-1 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) clarification added that test equipment may utilize pulsed generators to reduce power consumption;
- b) heating effect differences in the device under test noted in Annex B for tests conducted using pulsed generators;
- c) guidance added in Annex B to improve probability of detection of short duration PIM events while dynamic testing.

The text of this International Standard is based on the following documents:

| Draft       | Report on voting |
|-------------|------------------|
| 46/834/FDIS | 46/855/RVD       |

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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## **PASSIVE RF AND MICROWAVE DEVICES, INTERMODULATION LEVEL MEASUREMENT –**

### **Part 1: General requirements and measuring methods**

#### **1 Scope**

This part of IEC 62037 deals with the general requirements and measuring methods for intermodulation (IM) level measurement of passive RF and microwave components, which can be caused by the presence of two or more transmitting signals.

The test procedures given in this document give the general requirements and measurement methods required to characterize the level of unwanted IM signals using two transmitting signals.

The IEC 62037 series addresses the measurement of PIM, but does not cover the long-term reliability of a product with reference to its performance.

#### **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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